

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-024493**Date Inspected:** 14-Jun-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** An Qing Xiang**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG Components**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector, Anand Upadhye was present during the times noted above for observations relative to the work being performed.

NDT

BAY 14

This QA inspector witnessed and performed approximately 15 % Magnetic Particle Testing (MT) of the area previously tested and accepted by ZPMC Quality control personnel. This QA inspector generated MT report for this date. The members are identified as OBG Components. The weld designations reviewed are as follows:

SA3034-017- 001, 002, 010, 011.

SA3034-016- 001, 002, 010, 011.

SA3034-015- 001, 002, 010, 011.

SA3034-014- 001, 002, 010, 011.

SA3034-013- 001, 002, 010, 011.

SA3034-012- 001, 002, 010, 011.

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SA3034-011- 001, 002, 010, 011.

SA3034-010- 001, 002, 010, 011.

SA3034-009- 001, 002, 010, 011.

SA3034-008- 001, 002, 010, 011.

SA3034-007- 001, 002, 010, 011.

SA3034-006- 001, 002, 010, 011.

SA3034-005- 001, 002, 010, 011.

SA3034-002- 004, 005, 013, 014.

SA3034-001- 004, 005, 013, 014.

SA3034-004- 001, 002, 010, 011.

SA3034-003- 001, 002, 010, 011.

### WELDING

This QA Inspector observed the following work in progress:

#### Outside Yard – OBG Trial Assembly

This QA Inspector observed ZPMC qualified welding personnel identified as 066361 perform repair welding by Shielded Metal Arc Welding (SMAW), on Deck plate to Edge plate weld of OBG Segment 14W. Weld joint is identified as SEG3020-021. ZPMC Quality Control (QC) Inspector identified as Zhu Lin was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-345-SMAW-4G (4F)-FCM-Repair-1, which is used as per Critical welding repair report B-CWR3031.

This QA Inspector observed ZPMC qualified welding personnel identified as 037779 perform welding by Shielded Metal Arc Welding (SMAW), on Deck plate DP3168A to Sub Assembly part SA3412A weld of OBG Segment 14W. Weld joint is identified as SEG3020D-055. ZPMC Quality Control (QC) Inspector identified as Zhu Lin was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2212-Tc U4b-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 037779 perform welding by Shielded Metal Arc Welding (SMAW), on Deck panel diaphragm to Sub Assembly part SA3412A weld of OBG Segment 14W. Weld joint is identified as SEG3020D-056. ZPMC Quality Control (QC) Inspector identified as Zhu Lin was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general

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compliance with WPS-B-P-2213-Tc U4b-FCM-1.

This QA Inspector observed ZPMC qualified welding personnel identified as 037779 perform welding by Shielded Metal Arc Welding (SMAW), on Sub Assembly part SA3412A to Sub Assembly part SA3416A weld of OBG Segment 14W. Weld joint is identified as SEG3020D-057. ZPMC Quality Control (QC) Inspector identified as Zhu Lin was present to monitor the welding process. The welding variables recorded by ZPMC QC appeared to be in general compliance with WPS-B-P-2211-Tc U4b-FCM-1.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

No significant conversations were reported on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, phone: 15000422372 , who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Upadhye, Anand	Quality Assurance Inspector
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<b>Reviewed By:</b>	Clifford, William	QA Reviewer
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